

Name \_\_\_\_\_

Ch16 Study Guide CP Living

What are the properties of acids and bases we discussed? List them below.

What are indicators? What are the two we used and what colors are they in acidic/basic conditions?

What are the definitions for Arrhenius acids and bases?

What makes an acid strong or weak?

What formulas you used to calculate pH?

What is the proton concentration in pure water?

How does the pH scale work?

What is the pH of the following solutions? Show work:

0.000056 M HCl

0.0000221 M NaOH

0.014 M HF (10% Dissociation)

Define the following terms:

Titration-

Equivalence Point-

End Point-

A 38.0mL sample of HCl was titrated to completion with 26.0mL of 1.5 M NaOH. What is the concentration of the acid?

A 43 mL sample of  $\text{Ca}(\text{OH})_2$  was titrated with 16 mL 0.145 M  $\text{HNO}_3$ , what is the concentration of the  $\text{Ca}(\text{OH})_2$ ?

Balance the following Acid Base Reactions

Helpful Tip: It might be easier to balance them writing water as **HOH**

